West Virginia Department of Environmental Protection Division of Air Quality

Joe Manchin III Governor Stephanie R. Timmermeyer Cabinet Secretary

Permit to Operate



Pursuant to

Title V

of the Clean Air Act

Issued to:

<u>Duke Energy Generation Services (DEGS)</u> Cinergy Solutions of South Charleston, LLC R30-03900528-2006

> John A. Benedict Director

Issued: August 24, 2006 • Effective: September 7, 2006 Expiration: August 24, 2011 • Renewal Application Due: February 24, 2011 Permit Number: **R30-03900528-2006**

Permittee: <u>Duke Energy Generation Services (DEGS)</u> <u>Cinergy Solutions</u> of South Charleston, LLC Mailing Address: 139 E. Fourth Street, Mail Drop EA 502, Cincinnati, OH 45202

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Facility Location: South Charleston, Kanawha County, West Virginia
Mailing Address: 3200/3300 Kanawha Turnpike, South Charleston, WV

Telephone Number: 304-720-1029

Type of Business Entity: LLC

Facility Description: The permittee operates two (2) natural gas-fired boilers (B1 and B2) which

are equipped with low- NO_x burners designed solely for natural gas consumption, and no other secondary fuels combusted. Each boiler has a maximum design heat input of 65.93 MMBtu/hour, and each is capable of

delivering 50,000 pounds of steam per hour at 240-psig.

SIC Codes: 4961

UTM Coordinates: 438.67 km Easting • 4,245.47 km Northing • Zone 17

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.

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1.0 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
B1	BS1	Boiler #1	2005	65.93 MMBtu/hr	None
B2	BS2	Boiler #2	2005	65.93 MMBtu/hr	None

2.0 General Conditions

2.1. Definitions

- 2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.
- 2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.
- 2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

2.2. Acronyms

CAAA	Clean Air Act Amendments	NSPS	New Source	
CBI	Confidential Business Information		Performance Standards	
CEM	Continuous Emission Monitor	PM	Particulate Matter	
CES	Certified Emission Statement	PM_{10}	Particulate Matter less	
C.F.R. or CFR	Code of Federal Regulations		than 10µm in diameter	
CO	Carbon Monoxide	pph	Pounds per Hour	
C.S.R. or CSR	Codes of State Rules	ppm	Parts per Million	
DAQ	Division of Air Quality	PSD	Prevention of Significant	
DEP	Department of Environmental		Deterioration	
	Protection	psi	Pounds per Square Inch	
FOIA	Freedom of Information Act	SIC	Standard Industrial	
HAP	Hazardous Air Pollutant		Classification	
HON	Hazardous Organic NESHAP	SIP	State Implementation	
HP	Horsepower		Plan	
lbs/hr or lb/hr	Pounds per Hour	SO_2	Sulfur Dioxide	
LDAR	Leak Detection and Repair	TAP	Toxic Air Pollutant	
M	Thousand	TPY	Tons per Year	
MACT	Maximum Achievable Control	TRS	Total Reduced Sulfur	
	Technology	TSP	Total Suspended	
MM	Million		Particulate	
MMBtu/hr or	Million British Thermal Units per	USEPA	United States	
mmbtu/hr	Hour		Environmental	
MMCF/hr or	Million Cubic Feet Burned per		Protection Agency	
mmcf/hr	Hour	UTM	Universal Transverse	
NA	Not Applicable		Mercator	
NAAQS	National Ambient Air Quality	VEE	Visual Emissions	
	Standards		Evaluation	
NESHAPS	National Emissions Standards for	VOC	Volatile Organic	
	Hazardous Air Pollutants		Compounds	
NO_x	Nitrogen Oxides			

2.3. Permit Expiration and Renewal

2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.

[45CSR§30-5.1.b.]

2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.

[45CSR§30-4.1.a.3.]

2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.

[45CSR§30-6.3.b.]

2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.

[45CSR§30-6.3.c.]

2.4. Permit Actions

2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

[45CSR§30-5.1.f.3.]

2.5. Reopening for Cause

- 2.5.1. This permit shall be reopened and revised under any of the following circumstances:
 - a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.
 - b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.
 - c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

[45CSR§30-6.6.a.]

2.6. Administrative Permit Amendments

2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.

[45CSR§30-6.4.]

2.7. Minor Permit Modifications

2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.

[45CSR§30-6.5.a.]

2.8. Significant Permit Modification

2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.

[45CSR§30-6.5.b.]

2.9. Emissions Trading

2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.

[45CSR§30-5.1.h.]

2.10. Off-Permit Changes

- 2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:
 - a. The change must meet all applicable requirements and may not violate any existing permit term or condition.
 - b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
 - c. The change shall not qualify for the permit shield.
 - d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.
 - e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

[45CSR§30-5.9.]

2.11. Operational Flexibility

2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.

[45CSR§30-5.8]

2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.

[45CSR§30-5.8.a.]

- 2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:
 - a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or
 - b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

[45CSR§30-5.8.c.]

2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

[45CSR\$30-2.39]

2.12. Reasonably Anticipated Operating Scenarios

- 2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.
 - a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.
 - b. The permit shield shall extend to all terms and conditions under each such operating scenario; and
 - c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

[45CSR§30-5.1.i.]

2.13. Duty to Comply

2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

[45CSR§30-5.1.f.1.]

2.14. Inspection and Entry

- 2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:
 - a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution Control equipment), practices, or operations regulated or required under the permit;
 - d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

[45CSR§30-5.3.b.]

2.15. Schedule of Compliance

- 2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:
 - a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
 - b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

[45CSR§30-5.3.d.]

2.16. Need to Halt or Reduce Activity not a Defense

2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

[45CSR§30-5.1.f.2.]

2.17. Emergency

2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

[45CSR§30-5.7.a.]

- 2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met. [45CSR§30-5.7.b.]
- 2.17.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[45CSR§30-5.7.c.]

2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

[45CSR§30-5.7.d.]

2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement. [45CSR§30-5.7.e.]

2.18. Federally-Enforceable Requirements

2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act.

[45CSR§30-5.2.a.]

2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

2.19. Duty to Provide Information

2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2.

[45CSR§30-5.1.f.5.]

2.20. Duty to Supplement and Correct Information

2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information.

[45CSR§30-4.2.]

2.21. Permit Shield

- 2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof.

 [45CSR§30-5.6.a.]
- 2.21.2. Nothing in this permit shall alter or affect the following:
 - a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or
 - b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.
 - c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

[45CSR§30-5.6.c.]

2.22. Credible Evidence

2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.

[45CSR§30-5.3.e.3.B. and 45CSR38]

2.23. Severability

2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.

[45CSR§30-5.1.e.]

2.24. Property Rights

2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.

[45CSR§30-5.1.f.4]

2.25. Acid Deposition Control

- 2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.
 - a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.
 - b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.
 - c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

[45CSR§30-5.1.d.]

2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.

[45CSR§30-5.1.a.2.]

3.0 Facility-Wide Requirements

3.1. Limitations and Standards

3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.

[45CSR§6-3.1.]

3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR\$6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.

[45CSR§6-3.2.]

3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). A copy of this notice is required to be sent to the USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health.

[40 C.F.R. 61 and 45CSR15]

3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.

[45CSR§4-3.1. State-Enforceable only.]

3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.

[45CSR§11-5.2]

3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality.

[W.Va. Code § 22-5-4(a)(14)]

- 3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.
 - b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

[40 C.F.R. 82, Subpart F]

3.2. Monitoring Requirements

3.2.1. Reserved.

3.3. Testing Requirements

- 3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:
 - a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.
 - b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.
 - c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15) and 45CSR13]

3.4. Recordkeeping Requirements

- 3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:
 - a. The date, place as defined in this permit and time of sampling or measurements;
 - b. The date(s) analyses were performed;
 - c. The company or entity that performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of the analyses; and
 - f. The operating conditions existing at the time of sampling or measurement.

[45CSR§30-5.1.c.2.A., and 45CSR13, R13-2604BA, 3.4.1. and 4.4.1.]

3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.

[45CSR§30-5.1.c.2.B.]

3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.

[45CSR§30-5.1.c. State-Enforceable only.]

3.5. Reporting Requirements

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

[45CSR§§30-4.4. and 5.1.c.3.D.]

3.5.2. **Confidential Information.** A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.

[45CSR§30-5.1.c.3.E.]

3.5.3. **Correspondence.** All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class or by private carrier with postage prepaid to the

address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ: If to the US EPA:

Director Associate Director

WVDEP Office of Enforcement and Permits Review

Division of Air Quality (3AP12

601 57th Street SE U. S. Environmental Protection Agency

Charleston, WV 25304 Region III

1650 Arch Street

Phone: 304/926-0475 Philadelphia, PA 19103-2029

FAX: 304/926-0478

- 3.5.4. Certified emissions statement. The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality.
 [45CSR\$30-8.]
- 3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification.

[45CSR§30-5.3.e.]

- 3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. **[45CSR§30-5.1.c.3.A.]**
- 3.5.7. **Emergencies.** For reporting emergency situations, refer to Section 2.17 of this permit.
- 3.5.8. **Deviations.**
 - a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:
 - 1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.

- 2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.
- 3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.
- 4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.

[45CSR§30-5.1.c.3.C.]

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.

[45CSR§30-5.1.c.3.B.]

3.5.9. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.

[45CSR§30-4.3.h.1.B.]

3.6. Compliance Plan

3.6.1. No compliance plan was submitted since the permittee certified compliance in the Title V permit application.

3.7. Permit Shield

- 3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.
- 3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.
 - a. 40 C.F.R. 63, Subpart DDDDD National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Industrial Boilers and Process Heaters

The boilers B1 and B2 are natural gas-fired, firetube type, each with a design heat input of 65.93 MMBtu/hr. Since both boilers are firetube type, and combust only natural gas not combined with any solid fuel, both boilers are defined as "small gaseous fuel subcategory" units for interpretation and applicability of Subpart DDDDD (§63.7575). Both boilers were constructed after January 13, 2003; thus, both boilers are "new" for interpretation of the NESHAP.

There are neither emission limits nor work practice standards for "new small gaseous fuel" units in Table 1. Furthermore, the requirements set forth in Tables 2 through 9 in Subpart DDDDD are not applicable to the boilers B1 and B2 since these tables set forth requirements for air pollution control equipment (which is not

used on boilers B1 and B2) to control emissions of particulate matter, mercury, total selected metals, hydrogen chloride, and performance testing required to comply with such limits. Therefore, since there are no applicable emission limits found in this NESHAP, the Tables 2 through 9 are not applicable to the sources B1 and B2.

5. $45CSR1 - NO_x$ Budget Trading Program as a Means of Control and Reduction of Nitrogen Oxides from Non-Electric Generating Units

Boilers B1 and B2 were constructed after January 1, 1999, and each have a MDHI of 63.59 MMBtu/hr. In accordance with 45CSR§1-4.1.b.3., the units are not subject to the rule since the MDHI of each unit is less than 250 MMBtu/hr.

c. 45CSR27 - To Prevent and Control the Emissions of Toxic Air Pollutants

The boilers B1 and B2 do not emit any of the toxic air pollutants identified in 45CSR§27-2.10.; therefore, they are not subject to this rule.

d. 40 C.F.R. 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

Boilers B1 and B2 both were constructed after June 19, 1984, which satisfies part of the applicability criteria of the subpart given in §60.40b(a). The other criterion for the subpart to apply is that the maximum design heat input (MDHI) of the boiler must be greater than 100 MMBtu/hr. Boilers B1 and B2 each have a MDHI of 65.93 MMBtu/hr; therefore, the boilers B1 and B2 are not subject to 40 C.F.R. 60, Subpart Db.

e. 40 C.F.R. 64 – Compliance Assurance Monitoring.

The facility does not have a pollutant specific emissions unit with a control device in order to achieve compliance with an applicable standard or limit. Therefore, the facility is not subject to the Compliance Assurance Monitoring (CAM) rule.

4.0 Source-Specific Requirements [Boilers B1 and B2, Emission Point ID(s) BS1, BS2]

4.1. Limitations and Standards

4.1.1. Boiler #1 [B1] and Boiler #2 [B2] shall each be limited to a maximum designed heat input of 65.93 x 10⁶ BTUs per hour.

[45CSR13, R13-2604<u>B</u>A, 4.1.1.]

4.1.2. Fuel supplied to Boiler #1 [B1] and Boiler #2 [B2] shall be limited to natural gas with an average heat content of 1,087 BTUs per cubic foot.

[45CSR13, R13-2604A, 4.1.2.]

4.1.3. The natural gas consumption of each boiler shall not exceed a maximum of 70,136 cubic feet per hour and 531.33 × 10⁶ cubic feet per year. Compliance with the annual limit shall be determined using a rolling yearly total. A rolling yearly total shall mean the sum of the specified emissions for the previous twelve (12) consecutive calendar months.

[45CSR13, R13-2604A, 4.1.3. and 4.1.7.]

4.1.24. Emissions to the atmosphere from Boiler #1 [B1] shall be vented through emission point BS1. Emissions from BS1 shall be limited to the pollutants and associated emission rates as shown in Table 4.1.24.

Table 4.1.24.

		Maximum Emission Rate		
Emission Point	Pollutant	Hourly (lb/hr)	Annual (TPY)	
	NO _x	4.5	19.36	
	СО	7.2	31.49	
DG1	SO_2	0.1	0.175	
BS1	PM	0.5	2.01	
	PM ₁₀	0.5	2.01	
	VOC	1.1	4.64	

Compliance with the annual limits shall be determined using a rolling yearly total. A rolling yearly total shall mean the sum of the specified emissions for the previous twelve (12) consecutive calendar months.

Compliance with the more stringent PM and SO_2 limits above will demonstrate compliance with 45CSR§2-4.1. and 45CSR§10-3.3.f., respectively.

[45CSR13, R13-2604BA, 4.1.24., 4.1.57., 4.1.68., 4.1.211., 4.1.1416., 45CSR\$2-4.1., and 45CSR\$10-3.3.f.]

4.1.<u>3</u>5. Emissions to the atmosphere from Boiler #2 [B2] shall be vented through emission point BS2. Emissions from BS2 shall be limited to the pollutants and associated emission rates as shown in Table 4.1.<u>3</u>5.

Table 4.1.<u>3</u>5.

		Maximum Emission Rate		
Emission Point	Pollutant	Hourly (lb/hr)	Annual (TPY)	
	NO _x	4.5	19.36	
	СО	7.2	31.49	
D.G.A	SO_2	0.1	0.175	
BS2	PM	0.5	2.01	
	PM_{10}	0.5	2.01	
	VOC	1.1	4.64	

Compliance with the annual limits shall be determined using a rolling yearly total. A rolling yearly total shall mean the sum of the specified emissions for the previous twelve (12) consecutive calendar months.

Compliance with the more stringent PM and SO₂ limits above will demonstrate compliance with 45CSR§2-4.1. and 45CSR§10-3.3.f., respectively.

- 4.1.<u>46</u>. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute average. [45CSR13, R13-2604<u>B</u>A, 4.1.<u>46</u>., 4.1.<u>68</u>., 4.1.<u>79</u>., and 45CSR§2-3.1.]
- 4.1.<u>5</u>7. The addition of sulfur oxides to a combustion unit exit gas stream for the purpose of improving emissions control equipment efficiency shall be reviewed by the Director. No person shall cause, suffer, allow or permit the addition of sulfur oxides as described above unless written approval for such addition is provided by the Director.

[45CSR13, R13-2604<u>B</u>A, 4.1.<u>6</u>8., 4.1.<u>10</u>12., and 45CSR§2-4.4.]

4.1.<u>68</u>. At such reasonable times as the Director may designate, the owner or operator of any fuel burning unit may be required to conduct or have conducted tests to determine compliance of such unit(s) with the emission limitations of 45CSR§2-4.

[45CSR13, R13-2604BA, 4.1.68., 4.1.1113., and 45CSR§2-8.1.b.]

4.1.<u>79</u>. The Director, or his duly authorized representative, may conduct such other tests as he may deem necessary to evaluate air pollution emissions other than those noted in 45CSR§2-4.1.

[45CSR§2-8.1.c. and 45CSR13, R13-2604BA, 4.1.68.]

4.1.840. The owner or operator shall maintain records of the operating schedule and the quantity and quality of fuel consumed in each fuel burning unit in a manner to be established by the Director and set forth in an interpretive rule as authorized by W.Va. Code §29A-1-2. Such records are to be maintained on-site and made available to the Director or his duly authorized representative upon request.

[45CSR13, R13-2604<u>B</u>A, 4.1.<u>68</u>., 4.1.<u>12</u>14., and 45CSR§2-8.3.c.]

4.1.911. At all times, including periods of start-ups, shutdowns, and malfunctions, owners and operators shall, to the extent practicable, maintain and operate any fuel burning unit(s) including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

[45CSR13, R13-2604<u>B</u>A, 4.1.<u>68</u>., 4.1.<u>1315</u>., and 45CSR§2-9.2.]

4.2. Monitoring Requirements

4.2.1. Reserved.

4.3. Testing Requirements

4.3.1. Emissions stack testing shall be conducted for the purpose of demonstrating compliance with the proposed NO_x emissions factor of 0.067 lbs/MMBtu. All testing shall be performed in accordance to 40 C.F.R. 60, Appendix A.

 NO_x emission factor stack testing shall be performed within twenty-four (24) months after the issue of the initial Title V permit. Notwithstanding any other permit condition, the NO_x emission factor testing shall not be performed earlier than twelve (12) months after issue of the initial Title V permit. Thereafter, NO_x compliance testing for each unit shall be performed on the following schedule:

- a. Once per permit term, if the average measured result for that unit is less than or equal to 50% of the applicable emissions limit. Testing shall be performed no earlier than twenty-four (24) months after the previous test date of that unit.
- b. Twice per permit term, if the average measured result for that unit is greater than 50% and less than or equal to 80% of the applicable emissions limit. Testing shall be performed no earlier than twenty-four (24) months after the previous test date of that unit.
- c. Once every twelve (12) month period, if the measured results for that unit is greater than 80% of the applicable limit. Testing shall be performed no earlier than six (6) months after the previous test date of that unit.

With each subsequent Title V permit renewal application, the permittee shall submit the results of the then most recent NO_x stack testing. When applicable for a reporting period, all test results within that period shall be included in the semi-annual monitoring reports set forth by permit condition 3.5.6.

[45CSR13, R13-2604BA, 4.3.1., and 45CSR§§30-5.1.c. and 5.3.a.]

4.4. Recordkeeping Requirements

4.4.1. The permitted facility shall comply with all applicable provisions of 40 CFR 60, Subpart Dc - "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units," provided that the facility shall comply with any more stringent requirements as may be set forth under 4.1.1. through 4.1.46. of this permit.

The pertinent sections of 40 CFR 60, Subpart Dc applicable to this facility include the following:

- (a) The permittee shall maintain records of the quantities of daily fuel use by each boiler, by each fuel type, and by each supplier (if more than one supplier was used for a given fuel type).
- (b) The permittee shall maintain records of the date/time of all start-ups and shutdowns, plus the start date/time, and duration of all periods of boiler malfunction.

[45CSR13, R13-2604BA, 4.1.68., 4.1.2224., 40 C.F.R. §§ 60.48c(g) and 60.7(b), 45CSR16]

- 4.4.2. To determine compliance with the annual emissions limitations in Tables 4.1.2. and 4.1.3. of this permit, the permittee shall calculate and keep records of monthly and twelve-month rolling emission sums using the information recorded in 4.4.3. coupled with AP-42 emissions factors for CO, VOC, PM, PM10 and SO2, and a NOx vendor-guaranteed emission factor of 0.067 lbs/MMBtu. shall be determined by maintaining fuel consumption records for Boiler #1 [B1] and Boiler #2 [B2] to include the fuel type(s) and their associated monthly average hourly and annual consumption rates during boiler start up and routine operation.

 [45CSR13, R13-2604BA, 4.4.5. 4.4.4.]
- 4.4.3. The permittee shall keep records of the monthly average heat content of the natural gas consumed in the boilers and the amount of natural gas consumed per boiler.

[45CSR13, R13-2604B, 4.4.4.]

4.5. Reporting Requirements

- 4.5.1. All notifications and reporting requirements shall be performed in accordance with 40 C.F.R. § 60.7.
 - 4.5.1.1. Notifications required by the General Provisions of 40 C.F.R. 60.

[45CSR13, R13-2604BA, 4.1.68., 4.5.1. and 4.5.1.1., 45CSR16]

4.6. Compliance Plan

4.6.1. No compliance plan was submitted since the permittee certified compliance in the Title V permit application.